Ham-Space Digest   Tue, 29 Mar 94   Volume 94 : Issue   74

Today's Topics:
                      AMSAT-085 BULLETINS
                      APT and Game ports.
                    ARLK012 Keplerian data
                  DSP2232 and STEP Function
                 On-line satellite schedules?

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 27 Mar 1994 19:44:50 -0700
From: tribune.usask.ca!kakwa.ucs.ualberta.ca!quartz.ucs.ualberta.ca!alberta!
ve6mgs!usenet@decwrl.dec.com
Subject: AMSAT-085 BULLETINS
To: ham-space@ucsd.edu

SB SAT @ AMSAT $ANS-085.01
WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 085.05 FROM AMSAT HQ
SILVER SPRING, MD MARCH 26, 1994
TO ALL RADIO AMATEURS BT
BID: $ANS-085.01

Weekly OSCAR Status Reports: 26-MAR-94

AO-13: Current Transponder Operating Schedule:
M QST *** AO-13 TRANSPONDER SCHEDULE *** 1994 Mar 19-Apr 04

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Mode-B  : MA   0 to MA  90 |
Mode-BS : MA  90 to MA 120 |
Mode-S  : MA 120 to MA 122 |<- S beacon only
Mode-S  : MA 122 to MA 145 |<- S transponder; B trsp. is OFF
Mode-S  : MA 145 to MA 150 |<- S beacon only
Mode-BS : MA 150 to MA 180 |        Blon/Blat 180/0
Mode-B  : MA 180 to MA 256 |
Omnis   : MA 230 to MA  30 | Move to attitude 235/0, Apr 04 240/0, Apr 04
[G3RUH/DB2OS/VK5AGR]
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FO-20: The following is the current schedule for transponder operations:
     ANALOG MODE:
    23-Mar-94 7:52 -to- 30-Mar-94 8:15 UTC
    6-Apr-94 6:45 -to- 13-Apr-94 7:10 UTC
    20-Apr-94 7:35 -to- 27-Apr-94 7:55 UTC
    11-May-94 6:54 -to- 18-May-94 7:20 UTC
  Digital mode: Unless otherwise noted above.
  [Kazu Sakamoto (JJ1WTK) qga02014@niftyserve.or.jp]

MIR: The packet call for MIR is R0MIR-1 and the operating frequency is
    145.550 MHz. The crew usually has the Personal Messaging System
    (PMS) running. If you hear voice operations ask for Victor, Yuri, or
    Valeri. [VK3DFI]

AO-27: AMRAD-OSCAR-27 (AO-27) is up and going, and is said to be working
    well. It is in popular use in Europe. The 436.800 MHz FM down-
    link can be heard on a hand-held. Uplink is 145.850 MHz. It is
    said to be only active in daylight passes. [G3IOR]

UFO: We have a UFO on 145.592 MHz sending data. It was first heard by
    G3JQI at 18:50 UTC "dopplering" down until 18:55 UTC LOS on
    16-MAR-94. [G3IOR]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly
OSCAR status reports. If you have a favorite OSCAR which you work on a
regular basis and would like to contribute to this bulletin, please send
your observations to WD0HHU at his CompuServe address of 70524,2272, on
INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO
area, WD0HHU @ W0LJF.#NECO.CO.USA.NOAM. Also, if you find that the current
set of orbital elements are not generating the correct AOS/LOS times at
your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you
provide will be of value to all OSCAR enthusiasts.

/EX

Date: Mon, 28 Mar 1994 23:58:11 GMT

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!torn!nott!cunews!
freenet.carleton.ca!FreeNet.Carleton.CA!ag381@network.ucsd.edu
Subject: APT and Game ports.
To: ham-space@ucsd.edu

I would like to use the ADC on the game port(joystick port) to digitize
processed (ie filter and other needed things) APT output with my old humble
386.Any known pitfalls or no no's??

Date: Sat, 26 Mar 1994 17:02:19 -0700
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!utnut!utgpu!utcsri!newsflash.concordia.ca!
canopus.cc.umanitoba.ca!tribune.usask.ca!kakwa.ucs.ualberta.ca!
quartz.ucs.ualberta.ca!alberta!ve6mgs!usenet@network
Subject: ARLK012 Keplerian data
To: ham-space@ucsd.edu

SB KEP @ ARL $ARLK012
ARLK012 Keplerian data

ZCZC SK79
QST de W1AW
Keplerian Bulletin 12 ARLK012

Date: Wed, 23 Mar 1994 10:24:24 -0600
From: ihnp4.ucsd.edu!ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!
cs.utexas.edu!oakhill!val!afarm!fredmail@network.ucsd.edu
Subject: DSP2232 and STEP Function
To: ham-space@ucsd.edu

In reply to your question:
"Just a quick question to those who have received the Dec 1993 upgrade for
the DSP2232. I was wondering if anyone has received any information with
respect to the step funtion for radio frequency control of doppler effect?
It seems to me that the funtion is non-operable when using PB (KISS Mode)
and I wonder if so - what is it's purpose at least for the digital
satellites. I would like to hear from anyone who has more information as to
the funtion over what is in the manual - esp as to what the numbers signify
on the front of the unit.

My unit works fine with PB in KISS mode. Remember only modems 13 and 23
(the PSK modems) use the step function. The numbers +/- in the non-KISS
display indicate the number of 10Hz steps you are "off".
Does your DSP-2232 work with the steps when not in KISS mode? Make sure
it does before worrying about KISS mode.

Ron W5RKN

In a previous article, awoodhull@hamp.hampshire.edu () says:

>Is there an on-line source of data about Oscar and RS satellite schedules
>of operation?
>
>   Albert S. Woodhull
>   Hampshire College, Amherst, MA, USA
>   awoodhull@hamp.hampshire.edu
>
Let me know if you find one.
Thanks,Herb
>

SB KEP ARL ARLK012
ARLK012 Keplerian data

Thanks to NASA, AMSAT and N3FKV for the following Keplerian data.

Decode 2-line elsets with the following key:
1 AAAAAU 00 0 0 BBBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

AO-10
1 14129U 83058 B 94078.88849305 -.00000143   10000-3 0 2719
2 14129 27.1881 336.3846 6021341 163.5017 230.9609 2.05878514 52971
RS-10/11
1 18129U 87054 A 94083.85950758 0.00000045   32996-4 0 8840
2 18129 82.9237 31.1672 0010089 260.3947 99.6072 13.72333660338341
UO-11
1 14781U 84021 B 94080.50956311 0.00000321   62308-4 0 6756
2 14781 97.7914 99.3260 0011137 186.0140 174.0935 14.69174575537432

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RS-12/13
1 21089U 91007  A 94083.91328168 0.00000056           43496-4 0  6749
2 21089  82.9178  73.9474 0029727 346.5394  13.4967 13.74037568157076
AO-13
1 19216U 88051  B 94079.56167208 -.00000427           10000-4 0  8969
2 19216  57.8735 262.2374 7209738 337.3974   2.4979  2.09727288 12654
UO-14
1 20437U 90005  B 94081.17271111 0.00000085           50080-4 0  9756
2 20437  98.5928 167.1239 0011938  85.5805 274.6738 14.29832075217155
AO-16
1 20439U 90005  D 94080.46187457 0.00000059           39719-4 0  7753
2 20439  98.5999 167.5628 0012341  89.1267 271.1308 14.29886627217069
DO-17
1 20440U 90005  E 94080.42475274 0.00000076           46272-4 0  7748
2 20440  98.5973 167.8190 0012406  88.5722 271.6879 14.30025717217077
WO-18
1 20441U 90005  F 94081.23816758 0.00000086           50302-4 0  7767
2 20441  98.6015 168.6325 0013015  86.3234 273.9433 14.30001255217191
LO-19
1 20442U 90005  G 94080.24263321 0.00000078           46967-4 0  7741
2 20442  98.6015 167.8834 0013223  87.9281 272.3415 14.30095566217065
FO-20
1 20480U 90013  C 94080.89109631 -.00000016           34911-4 0  6700
2 20480  99.0243 249.2547 0540894 177.1640 183.2749 12.83224747192930
AO-21
1 21087U 91006  A 94083.81213222 0.00000093           82657-4 0  4470
2 21087  82.9385 205.1317 0035468 321.3795  38.4825 13.74536340157997
UO-22
1 21575U 91050  B 94083.73961308 0.00000092           45779-4 0  4773
2 21575  98.4401 159.9202 0007411 175.9931 184.1314 14.36901806140953
KO-23
1 22077U 92052  B 94080.53661719 -.00000037           10000-3 0  3713
2 22077  66.0814 103.5014 0011679 308.7258  51.2714 12.86285587 75516
KO-25
1 22830U 93061  H 94080.22548462 0.00000089           53029-4 0  2754
2 22830  98.5601 155.1027 0012635  74.3234 285.9328 14.28041738 25144
IO-26
1 22826U 93061  D 94081.10608673 0.00000042           34690-4 0  2727
2 22826  98.6605 157.7921 0009917 100.6730 259.5579 14.27717009 25266
AO-27
1 22825U 93061  C 94081.11877430 0.00000025           28178-4 0  2721
2 22825  98.6600 157.7790 0009554 101.5696 258.6548 14.27613987 25268
PoSat
1 22829U 93061  G 94081.13993678 0.00000098           57325-4 0  2658
2 22829  98.6563 157.8404 0011057  89.9512 270.2938 14.28013136 25275
STS-59
1 99959U          94097.74947238 0.00221188           11303-3 0    76
2 99959  57.0053 276.3038 0009259 269.9963  90.0094 16.19806752    53
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Mir
1 16609U 86017  A 94084.22298912 0.00012832          17118-3 0  5390
2 16609  51.6456 247.1587 0015513  70.7148 289.5529 15.58361608   493

Keplerian bulletins are transmitted twice weekly from W1AW.
The next scheduled transmission of these data will be Tuesday,
March 28, 1994, at 2330z on Baudot and AMTOR.
NNNN
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End of Ham-Space Digest V94 #74
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